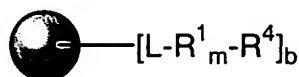


In the claims:

1. (Original) A process for the preparation of a compound of the formula I:

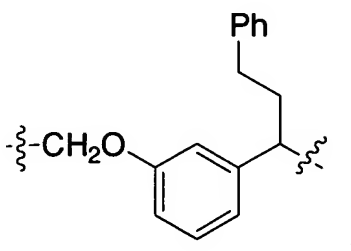


I

wherein



is an insoluble solid support selected from the group consisting of: poly(styrene-divinylbenzene), macroreticular poly(styrene-divinylbenzene), polystyrene which is radiation grafted to polypropylene, polystyrene which is radiation grafted to polyethylene, polystyrene which is radiation grafted to poly(tetrafluoroethylene), and polystyrene which is radiation grafted to poly(ethylene-tetrafluoroethylene) wherein the insoluble solid support is in a shape selected from a bead, a tube, a rod, a ring, a disk, or a well; L is $-\text{CH}_2-$, $-\text{C}(\text{CH}_3)_2-$, $-\text{CH}(\text{CH}_3)-$, $-(\text{CH}_2)_n\text{CH}(\text{CN})-$, $-(\text{CH}_2)_n\text{CH}(\text{CO}_2\text{Me})-$, $-(\text{CH}_2)_n\text{CH}(\text{Ph})-$, $-(\text{CH}_2)_n\text{C}(\text{CH}_3, \text{Ph})-$, $-\text{CH}(\text{CH}_2\text{CH}_2\text{Ph})-$, or

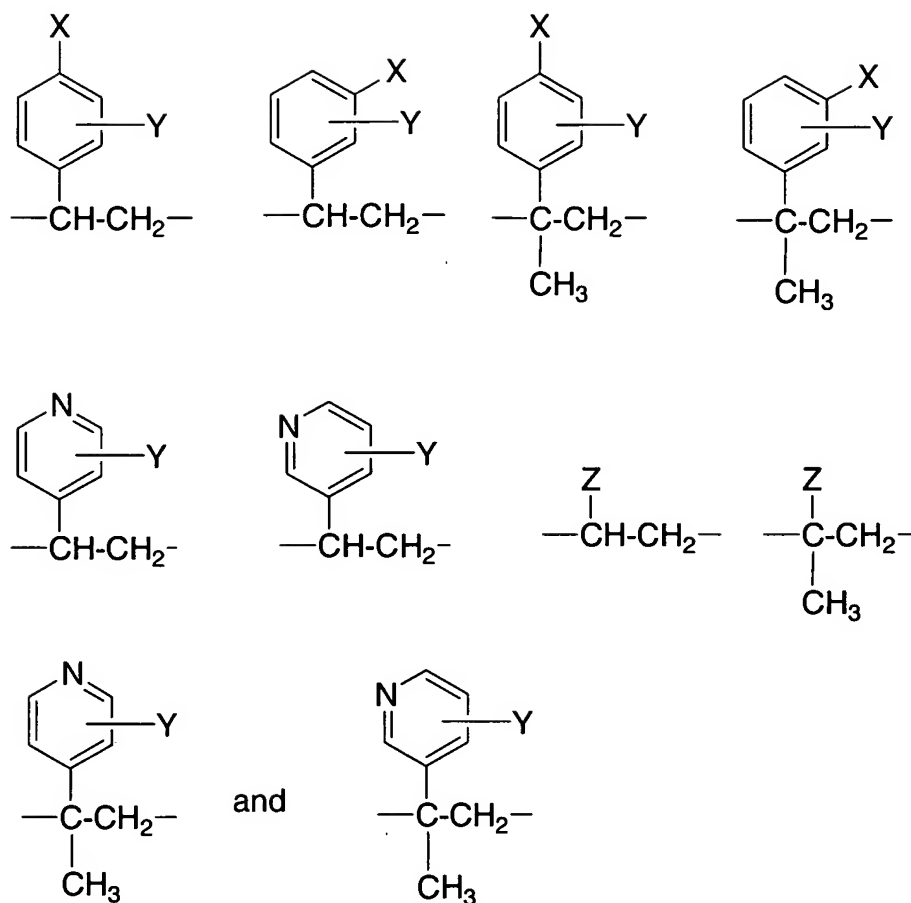


n is zero or an integer from 1 to 5;

m is zero or an integer from 1 to 100;

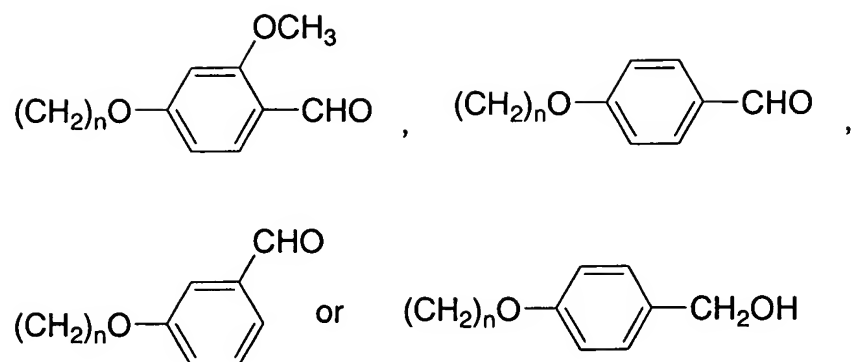
b is mMol content of initiator or solid-supported polymer per gram of insoluble solid support and is about 0.1 to about 5.0 mMol per gram;

R¹ is selected from:



wherein

X is H, F, $(\text{CH}_2)_n\text{Cl}$, $(\text{CH}_2)_n\text{Br}$, $(\text{CH}_2)_n\text{I}$, $\text{B}(\text{OH})_2$, $(\text{CH}_2)_n\text{CH}=\text{CH}_2$, NCO , CH_2NCO , $\text{CH}(\text{CH}_3)\text{NCO}$, $\text{C}(\text{CH}_3)_2\text{NCO}$, CO_2Me , CO_2Et , $\text{CO}_2(\text{t-Bu})$, CO_2H , COC1 , $\text{CO}_2\text{CH}(\text{CF}_3)_2$, CO_2Ph , $\text{CO}_2(\text{pentafluorophenyl})$, $\text{CO}_2(\text{pentachlorophenyl})$, $\text{CO}_2(\text{N-succinimidyl})$, $\text{C}(\text{OMe})_3$, $\text{C}(\text{OEt})_3$, $(\text{CH}_2)_n\text{OH}$, $(\text{CH}_2)_n\text{CH}(\text{OH})\text{CH}_2\text{OH}$, $(\text{CH}_2)_n\text{SH}$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{SH}$, $(\text{CH}_2)_n\text{NHC}(=\text{S})\text{NH}_2$, $(\text{CH}_2)_n\text{NH}_2$, $(\text{CH}_2)_n\text{N}(\text{Me})_2$, $(\text{CH}_2)_n\text{N}(\text{Et})_2$, $(\text{CH}_2)_n(\text{iPr})_2$, $\text{CH}(\text{CH}_3)\text{NH}_2$, $\text{C}(\text{CH}_3)_2\text{NH}_2$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{NH}_2$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{NHCH}_2\text{CH}_2\text{NH}_2$, $\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{NH}_2)_2$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{NH}_2)_2$, $\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{OH})_2$, $(\text{CH}_2)_n(\text{morpholin-4-yl})$, $(\text{CH}_2)_n(\text{piperidin-1-yl})$, $(\text{CH}_2)_n(4\text{-methypiperazin-1-yl})$, $\text{N}(\text{SO}_2\text{CF}_3)_2$, $(\text{CH}_2)_n\text{CHO}$, $(\text{CH}_2)_n\text{Si}(\text{Me})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Et})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{iPr})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})(\text{tBu})\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Me})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{Et})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{i-Pr})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})(\text{Ph})\text{Cl}$, $\text{P}(\text{Ph})_2$, $\text{P}(\text{o-tolyl})_2$,

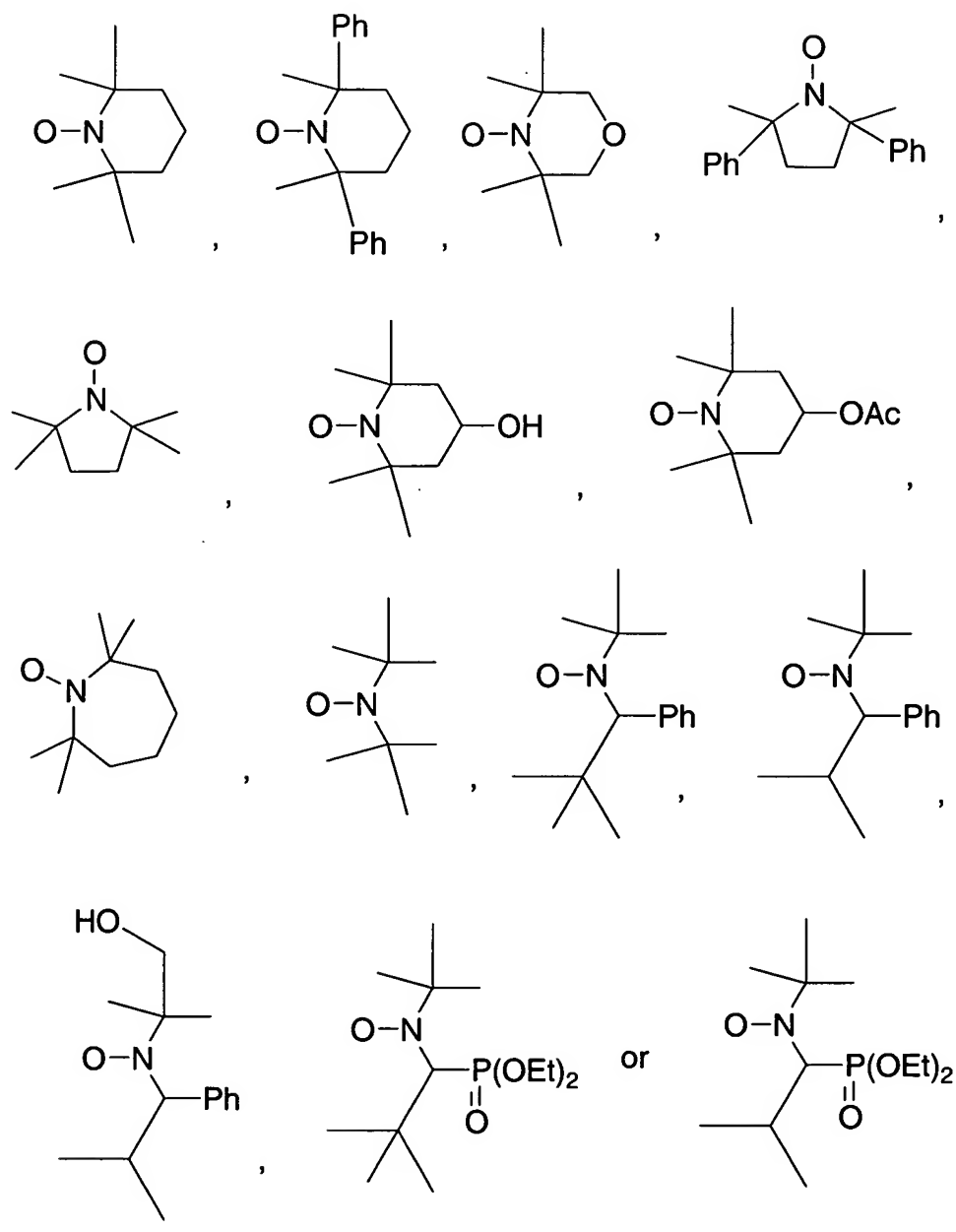


wherein n is zero or an integer from 1 to 5 ;

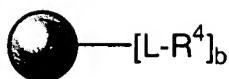
Y is H, Cl, Br, F, OH, or OMe;

Z is NCO, CO₂Me, CO₂Et, CO₂(i-Pr), CO₂(n-Bu), CO₂(t-Bu), CN, CO₂H, COCl,
CO₂CH(CF₃)₂, CO₂ (pentafluorophenyl), CO₂(pentachlorophenyl), CO₂Ph, CO₂(N—
succinimidyl), C(OMe)₃, C(OEt)₂, CON(OCH₃)CH₃, CHO, CH₂OH, or C(CH₃)₂OH;
and

R⁴ is

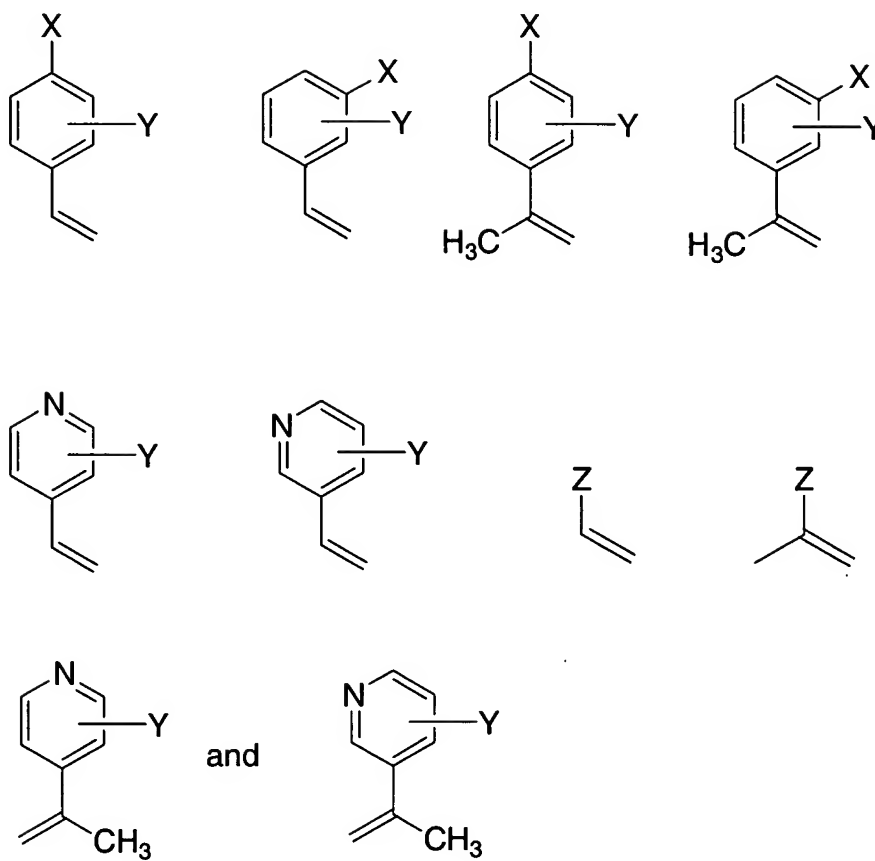


which comprises the step of microwave irradiating a mixture comprising a compound of the formula II

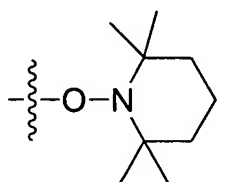


II

and a compound III selected from:



2. (Original) The process according to Claim 1 wherein R^4 is

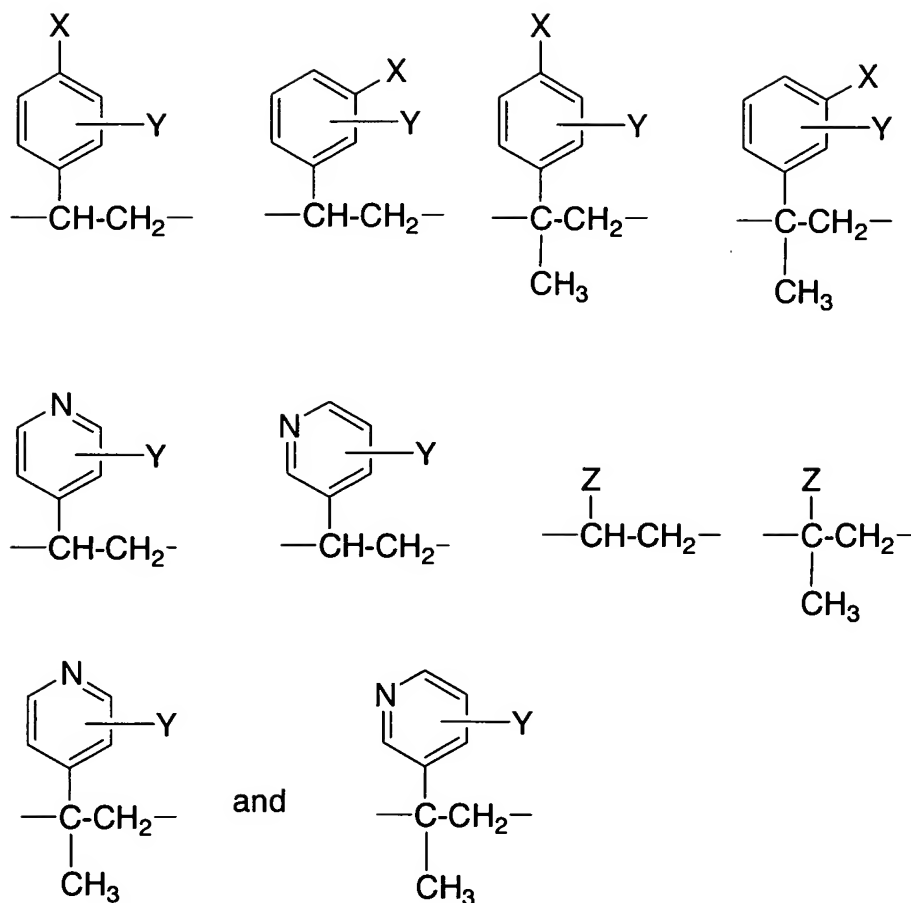


$$\bullet - [L - (R^1)_w - R^2]_p - R^4]_b$$

IV

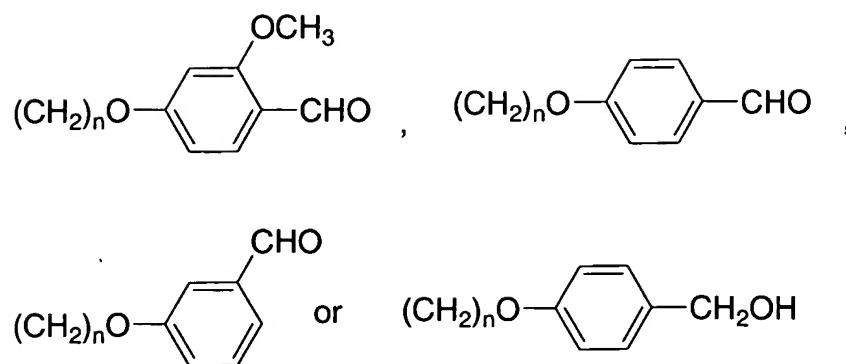


R^1 and R^2 are each independently the same or different and are selected from



wherein

X is H, F, $(\text{CH}_2)_n\text{Cl}$, $(\text{CH}_2)_n\text{Br}$, $(\text{CH}_2)_n\text{I}$, $\text{B}(\text{OH})_2$, $(\text{CH}_2)_n\text{CH}=\text{CH}_2$, NCO , CH_2NCO , $\text{CH}(\text{CH}_3)\text{NCO}$, $\text{C}(\text{CH}_3)_2\text{NCO}$, CO_2Me , CO_2Et , $\text{CO}_2(\text{t-Bu})$, CO_2H , COCl , $\text{CO}_2\text{CH}(\text{CF}_3)_2$, CO_2Ph , $\text{CO}_2(\text{pentafluorophenyl})$, $\text{CO}_2(\text{pentachlorophenyl})$, $\text{CO}_2(\text{N-succinimidyl})$, $\text{C}(\text{OMe})_3$, $\text{C}(\text{OEt})_3$, $(\text{CH}_2)_n\text{OH}$, $(\text{CH}_2)_n\text{CH}(\text{OH})\text{CH}_2\text{OH}$, $(\text{CH}_2)_n\text{SH}$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{SH}$, $(\text{CH}_2)_n\text{NHC}(=\text{S})\text{NH}_2$, $(\text{CH}_2)_n\text{NH}_2$, $(\text{CH}_2)_n\text{N}(\text{Me})_2$, $(\text{CH}_2)_n\text{N}(\text{Et})_2$, $(\text{CH}_2)_n(\text{iPr})_2$, $\text{CH}(\text{CH}_3)\text{NH}_2$, $\text{C}(\text{CH}_3)_2\text{NH}_2$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{NH}_2$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{NHCH}_2\text{CH}_2\text{NH}_2$, $\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{NH}_2)_2$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{NH}_2)_2$, $\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{OH})_2$, $(\text{CH}_2)_n(\text{morpholin-4-yl})$, $(\text{CH}_2)_n(\text{piperidin-1-yl})$, $(\text{CH}_2)_n(4\text{-methypiperazin-1-yl})$, $\text{N}(\text{SO}_2\text{CF}_3)_2$, $(\text{CH}_2)_n\text{CHO}$, $(\text{CH}_2)_n\text{Si}(\text{Me})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Et})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{iPr})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})(\text{tBu})\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Me})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{Et})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{i-Pr})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})(\text{Ph})\text{Cl}$, $\text{P}(\text{Ph})_2$, $\text{P}(\text{o-tolyl})_2$,

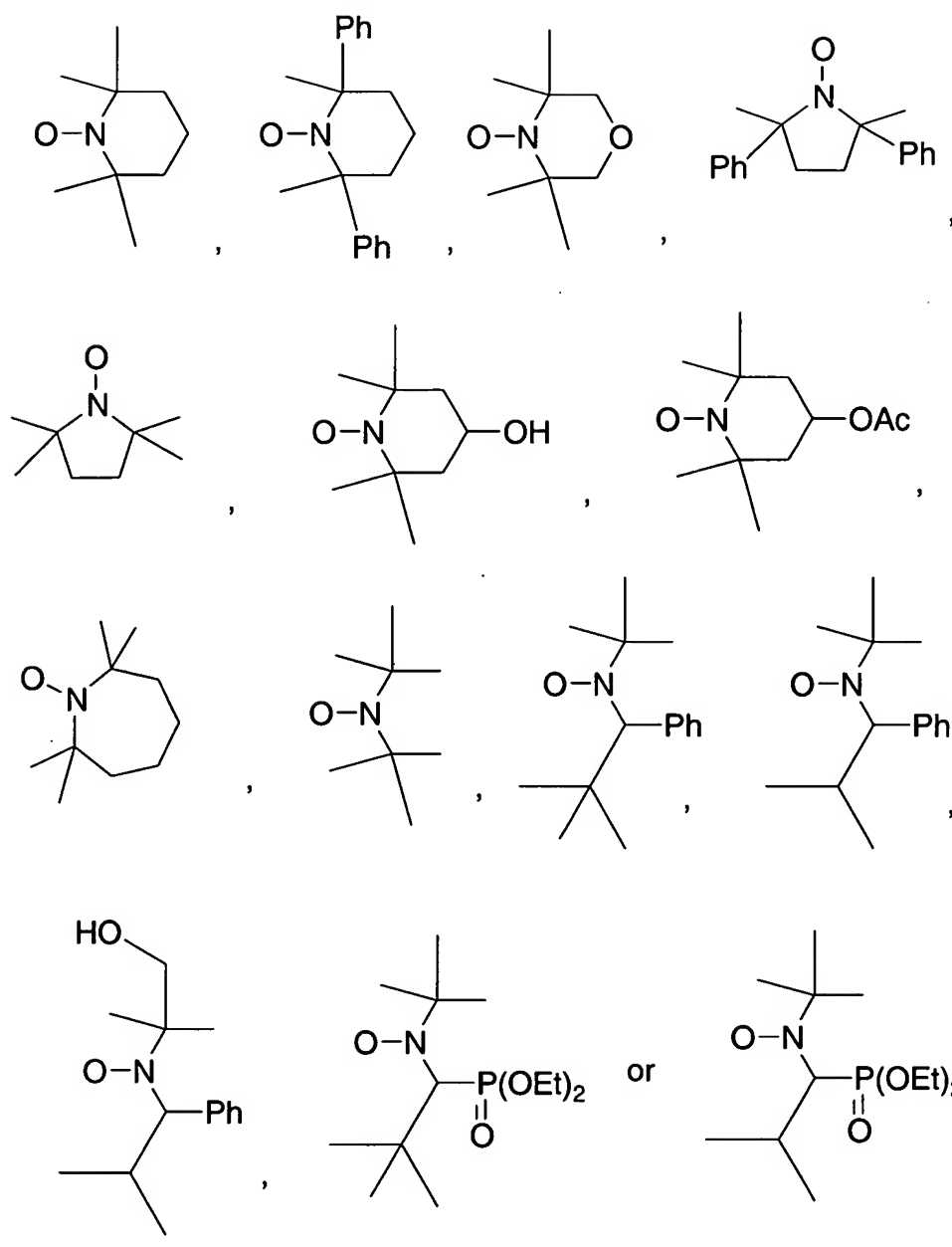


wherein n is zero or an integer from 1 to 5;

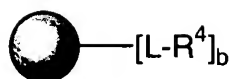
Y is H, Cl, Br, F, OH, or OMe;

Z is NCO, CO_2Me , CO_2Et , CO_2 (i-Pr), CO_2 (n-Bu), CO_2 (t-Bu), CN, CO_2H , COC1 , $\text{CO}_2\text{CH}(\text{CF}_3)_2$, CO_2 (pentafluorophenyl), CO_2 (pentachlorophenyl), CO_2Ph , CO_2 (N-succinimidyl), $\text{C}(\text{OMe})_3$, $\text{C}(\text{OEt})_2$, $\text{CON}(\text{OCH}_3)\text{CH}_3$, CHO, CH_2OH , or $\text{C}(\text{CH}_3)_2\text{OH}$; and

R^4 is

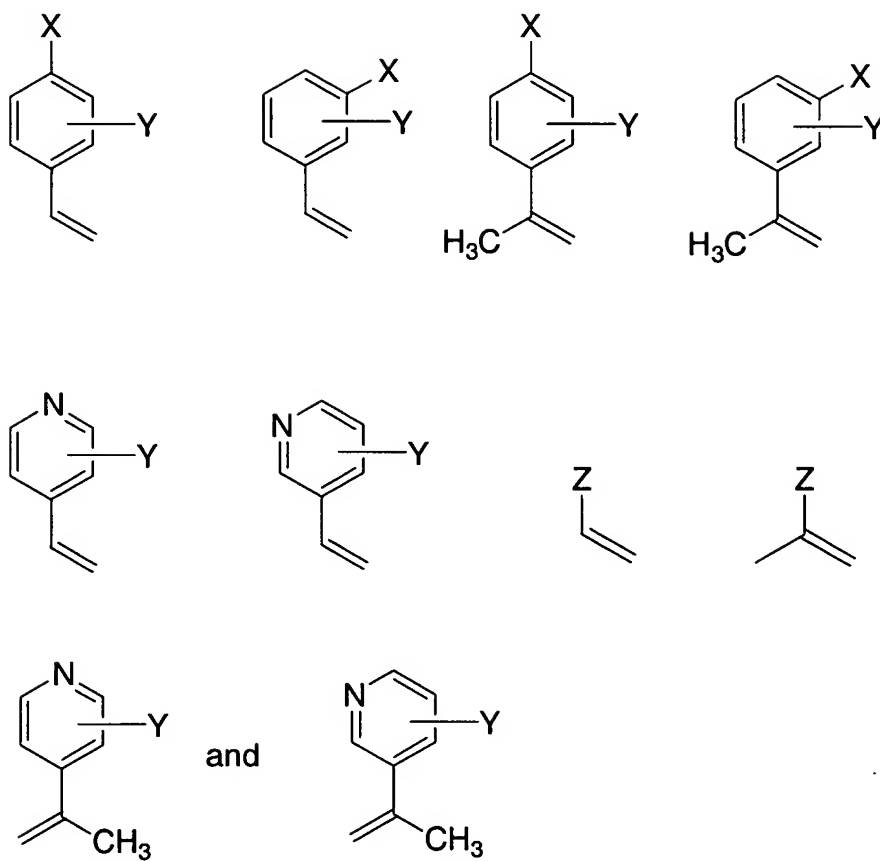


which comprises the step of microwave irradiating a mixture comprising a compound of the formula II

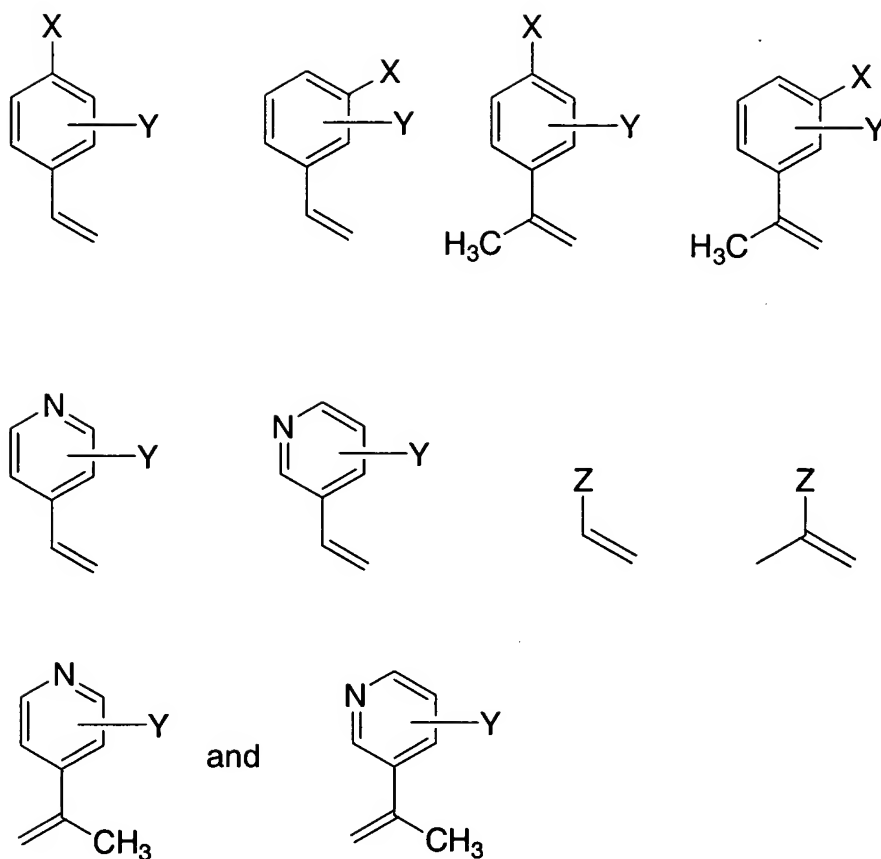


II ,

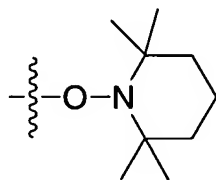
a compound III selected from:



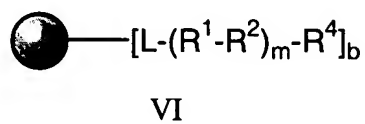
and a compound V selected from:



4. (Original) The process according to Claim 3 wherein R^4 is



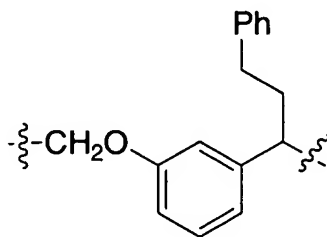
5. (Original) A process for the preparation of a compound of the formula VI:



wherein



is an insoluble solid support selected from the group consisting of: poly(styrene-divinylbenzene), macroreticular poly(styrene-divinylbenzene), polystyrene which is radiation grafted to polypropylene, polystyrene which is radiation grafted to polyethylene, polystyrene which is radiation grafted to poly(tetrafluoroethylene), and polystyrene which is radiation grafted to poly(ethylene-tetrafluoroethylene) wherein the insoluble solid support is in a shape selected from a bead, a tube, a rod, a ring, a disk, or a well; L is $-\text{CH}_2-$, $-\text{C}(\text{CH}_3)_2-$, $-\text{CH}(\text{CH}_3)-$, $-(\text{CH}_2)_n\text{CH}(\text{CN})-$, $-(\text{CH}_2)_n\text{CH}(\text{CO}_2\text{Me})-$, $-(\text{CH}_2)_n\text{CH}(\text{Ph})-$, $-(\text{CH}_2)_n\text{C}(\text{CH}_3, \text{Ph})-$, $-\text{CH}(\text{CH}_2\text{CH}_2\text{Ph})-$, or



n is zero or an integer from 1 to 5;

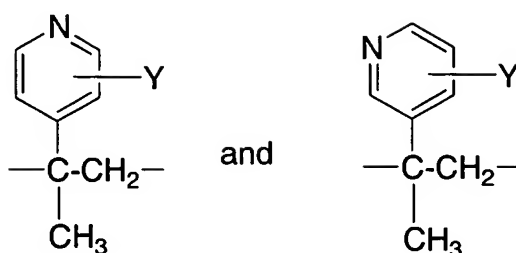
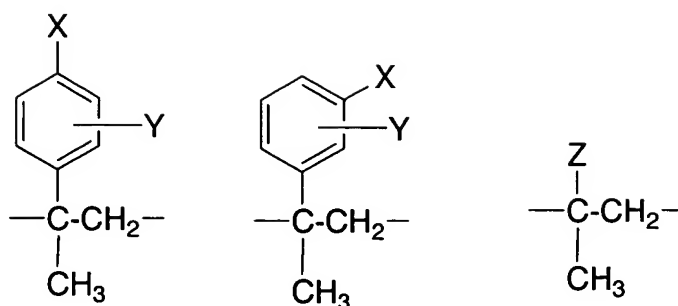
m is zero or an integer from 1 to 100;

w is an integer from 1 to 10;

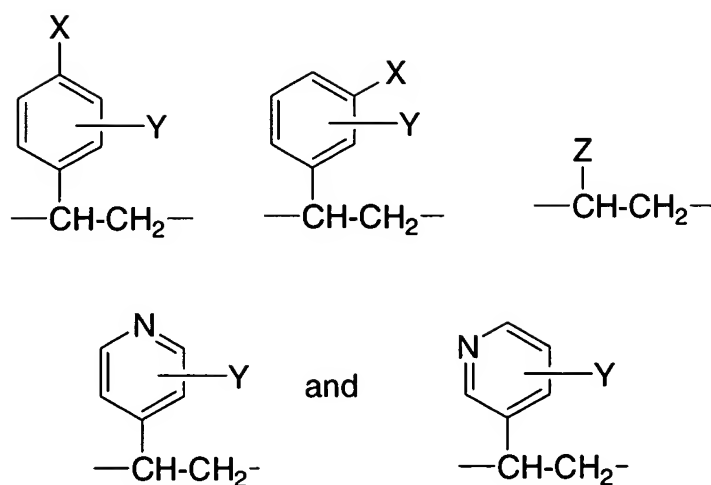
p is zero or an integer from 1 to 10;

b is mMol content of initiator or solid-supported polymer per gram of insoluble solid support and is about 0.1 to about 5.0 mMol per gram;

R^1 is selected from



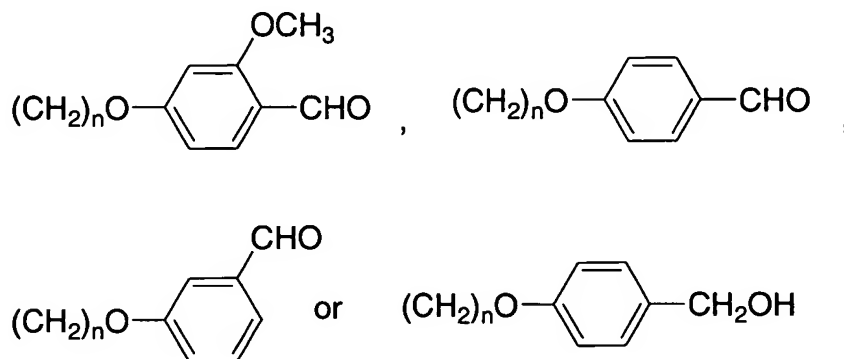
R^2 is selected from



wherein

X is H, F, $(CH_2)_nCl$, $(CH_2)_nBr$, $(CH_2)_nI$, $B(OH)_2$, $(CH_2)_nCH=CH_2$, NCO, CH_2NCO , $CH(CH_3)NCO$, $C(CH_3)_2NCO$, CO_2Me , CO_2Et , $CO_2(t-Bu)$, CO_2H , $COCl$, $CO_2CH(CF_3)_2$, CO_2Ph , CO_2 (pentafluorophenyl), CO_2 (pentachlorophenyl), CO_2 (N-succinimidyl), $C(OMe)_3$, $C(OEt)_3$, $(CH_2)_nOH$, $(CH_2)_nCH(OH)CH_2OH$, $(CH_2)_nSH$, $CH_2NHCH_2CH_2SH$, $(CH_2)_nNHC(=S)NH_2$, $(CH_2)_nNH_2$, $(CH_2)_nN(Me)_2$, $(CH_2)_nN(Et)_2$, $(CH_2)_n(iPr)_2$, $CH(CH_3)NH_2$, $C(CH_3)_2NH_2$, $CH_2NHCH_2CH_2NH_2$, $CH_2NHCH_2CH_2NHCH_2CH_2NH_2$,

CH₂N(CH₂CH₂NH₂)₂, CH₂NHCH₂CH₂N(CH₂CH₂NH₂)₂, CH₂N(CH₂CH₂OH)₂,
 (CH₂)_n(morpholin-4-yl), (CH₂)_n(piperidin-1-yl), (CH₂)_n(4-methylpiperazin-1-yl),
 N(SO₂CF₃)₂, (CH₂)_nCHO, (CH₂)_nSi(Me)₂H, (CH₂)_nSi(Et)₂H, (CH₂)_nSi(iPr)₂H,
 (CH₂)_nSi(tBu)₂H, (CH₂)_nSi(Ph)₂H, (CH₂)_nSi(Ph)(tBu)H, (CH₂)_nSi(Me)₂Cl, (CH₂)_nSi(Et)₂Cl,
 (CH₂)_nSi(i-Pr)₂Cl, (CH₂)_nSi(tBu)₂Cl, (CH₂)_nSi(Ph)₂Cl, (CH₂)_nSi(tBu)(Ph)Cl, P(Ph)₂,
 P(o-tolyl)₂,

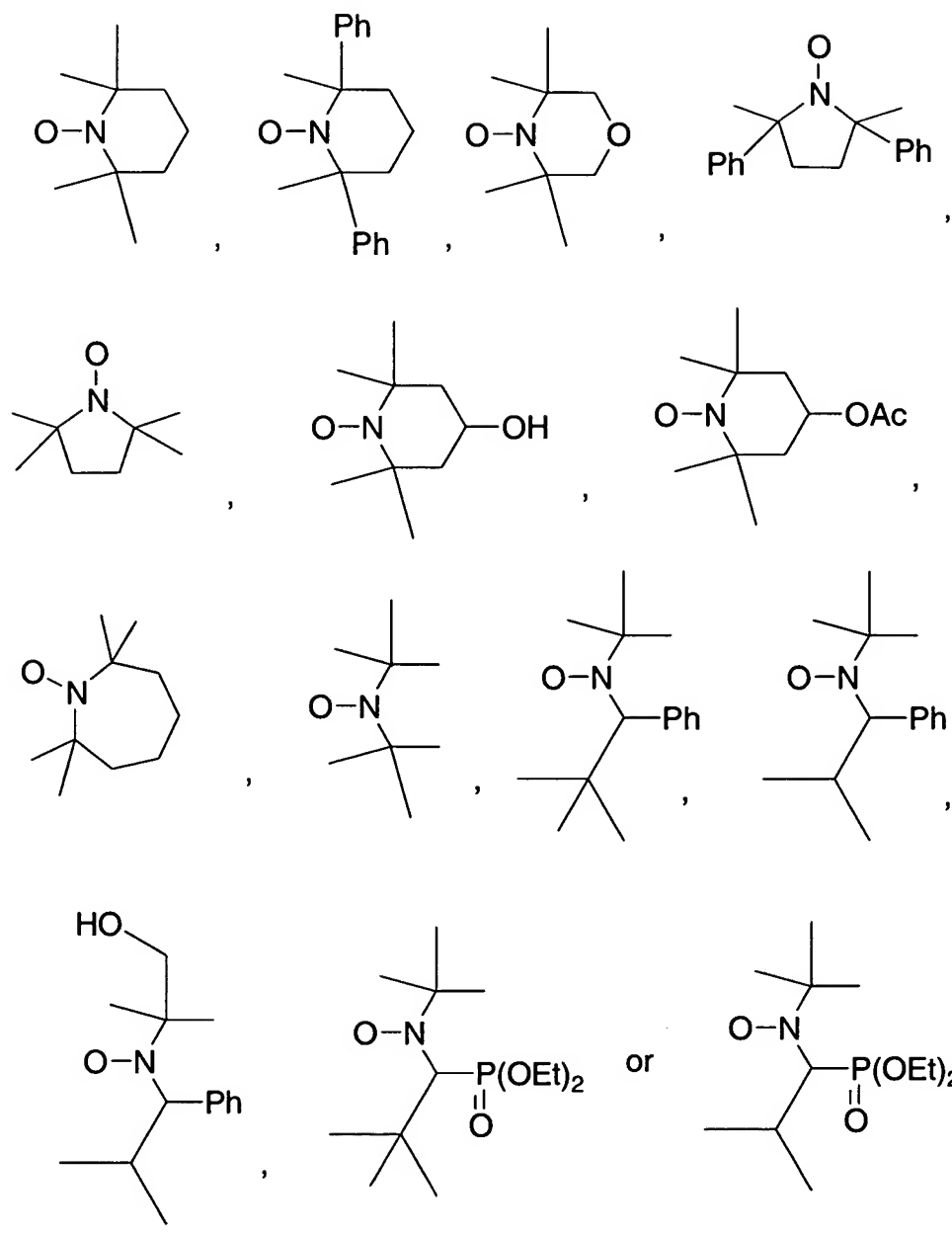


wherein n is zero or an integer from 1 to 5;

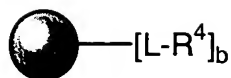
Y is H, Cl, Br, F, OH, or OMe;

Z is NCO, CO₂Me, CO₂Et, CO₂(i-Pr), CO₂(n-Bu), CO₂(t-Bu), CN, CO₂H, COCl,
 CO₂CH(CF₃)₂, CO₂(pentafluorophenyl), CO₂(pentachlorophenyl), CO₂Ph, CO₂(N-
 succinimidyl), C(OMe)₃, C(OEt)₂, CON(OCH₃)CH₃, CHO, CH₂OH, or C(CH₃)₂OH; and

R⁴ is

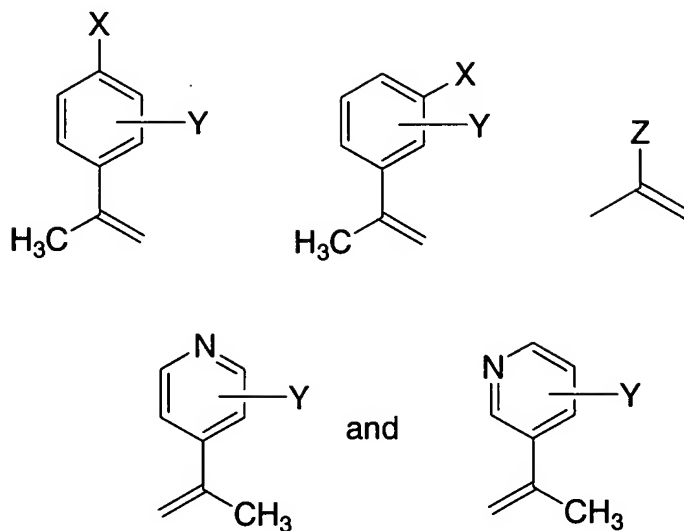


which comprises the step of microwave irradiating a mixture comprising a compound of the formula II

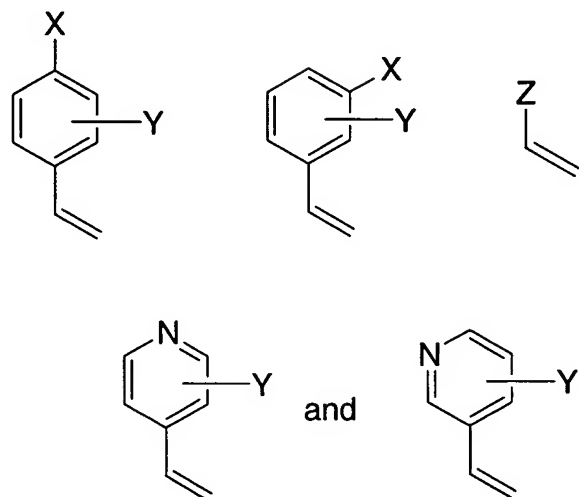


II ,

a compound VII selected from:

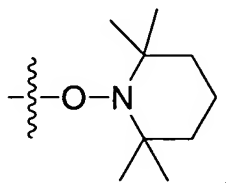


and a compound VIII selected from:

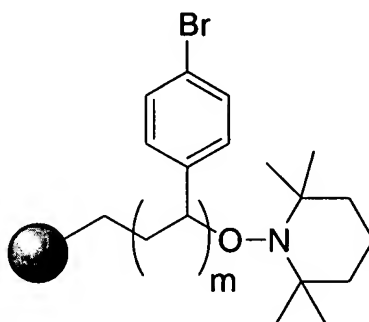



wherein the ratio of the compound VII and the compound VIII is about 2:1.

6. (Original) The process according to Claim 5 wherein R⁴ is

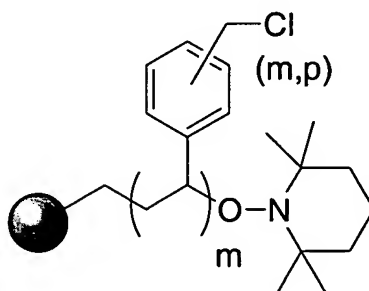



7. (Currently amended) The compound according to Claim 13 which is



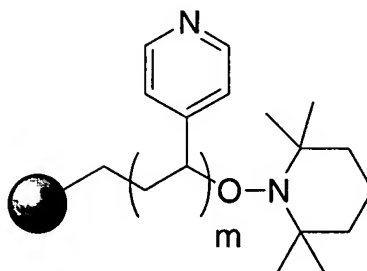
wherein  is a polystyrene resin, m is from 1 to 100 and the bromine content is from about 4 to about 6 mmol/gram of resin.


8. (Currently amended) The compound according to Claim 13 which is



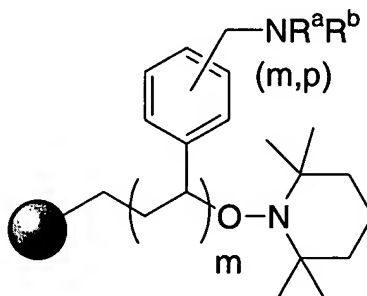
wherein  is a polystyrene resin, m is from 1 to 100 and the chlorine content is from about 5 to about 7 mmol/gram of resin.


9. (Currently amended) The compound according to Claim 13 which is



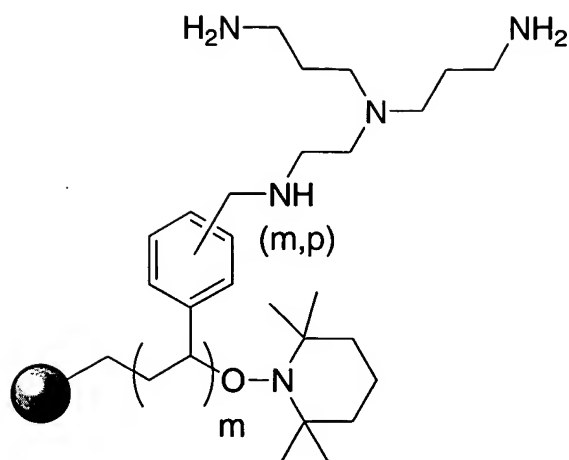
wherein  is a polystyrene resin, m is from 1 to 100 and the pyridyl content is from about 5 to about 7 mmol/gram of resin.


10. (Currently amended) The compound according to Claim 13 which is



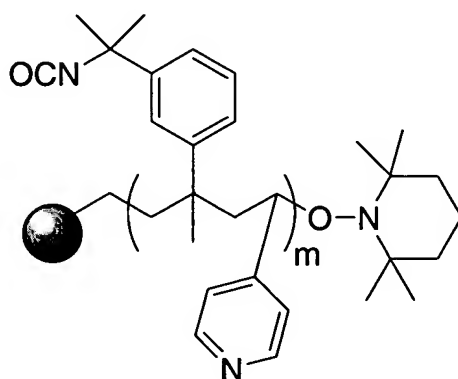
wherein  is a polystyrene resin, m is from 1 to 100, $-NR^aR^b$ is selected from diethylamino, diisopropylamino, piperidinyl, morpholino and piperazinyl and the amine content is from about 4 to about 7 mmol/gram of resin.


11. (Currently amended) The compound according to Claim 13 which is



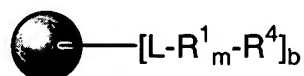
wherein  is a polystyrene resin, m is from 1 to 100, and the amine content is from about 3 to about 6 mmol/gram of resin.

12. (Currently amended) The compound according to Claim 13 which is



wherein  is a polystyrene resin, m is from 1 to 100, and the isocyanate content is from about 1 to about 4 mmol/gram of resin.

13. (New) A compound which is:

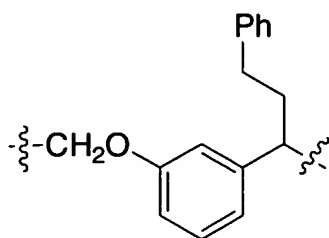


I

wherein



is an insoluble solid support selected from the group consisting of: poly(styrene-divinylbenzene), macroreticular poly(styrene-divinylbenzene), polystyrene which is radiation grafted to polypropylene, polystyrene which is radiation grafted to polyethylene, polystyrene which is radiation grafted to poly(tetrafluoroethylene), and polystyrene which is radiation grafted to poly(ethylene-tetrafluoroethylene) wherein the insoluble solid support is in a shape selected from a bead, a tube, a rod, a ring, a disk, or a well; L is $-\text{CH}_2-$, $-\text{C}(\text{CH}_3)_2-$, $-\text{CH}(\text{CH}_3)-$, $-(\text{CH}_2)_n\text{CH}(\text{CN})-$, $-(\text{CH}_2)_n\text{CH}(\text{CO}_2\text{Me})-$, $-(\text{CH}_2)_n\text{CH}(\text{Ph})-$, $-(\text{CH}_2)_n\text{C}(\text{CH}_3, \text{Ph})-$, $-\text{CH}(\text{CH}_2\text{CH}_2\text{Ph})-$, or

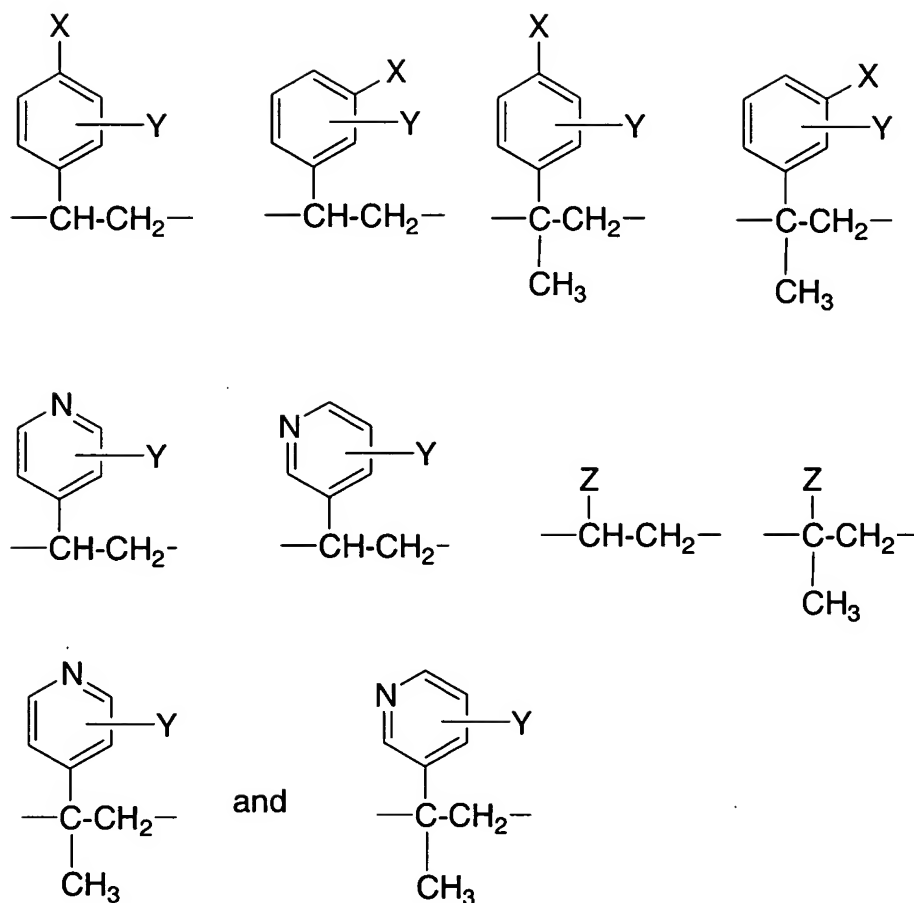


n is zero or an integer from 1 to 5;

m is zero or an integer from 1 to 100;

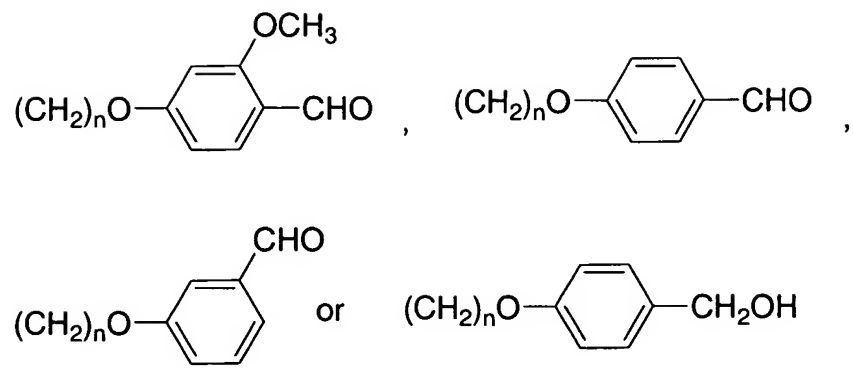
b is mMol content of initiator or solid-supported polymer per gram of insoluble solid support and is about 0.1 to about 5.0 mMol per gram;

R^1 is selected from:



wherein

X is H, F, $(\text{CH}_2)_n\text{Cl}$, $(\text{CH}_2)_n\text{Br}$, $(\text{CH}_2)_n\text{I}$, $\text{B}(\text{OH})_2$, $(\text{CH}_2)_n\text{CH}=\text{CH}_2$, NCO , CH_2NCO , $\text{CH}(\text{CH}_3)\text{NCO}$, $\text{C}(\text{CH}_3)_2\text{NCO}$, CO_2Me , CO_2Et , $\text{CO}_2(\text{t-Bu})$, CO_2H , COC1 , $\text{CO}_2\text{CH}(\text{CF}_3)_2$, CO_2Ph , $\text{CO}_2(\text{pentafluorophenyl})$, $\text{CO}_2(\text{pentachlorophenyl})$, $\text{CO}_2(\text{N-succinimidyl})$, $\text{C}(\text{OMe})_3$, $\text{C}(\text{OEt})_3$, $(\text{CH}_2)_n\text{OH}$, $(\text{CH}_2)_n\text{CH}(\text{OH})\text{CH}_2\text{OH}$, $(\text{CH}_2)_n\text{SH}$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{SH}$, $(\text{CH}_2)_n\text{NHC}(=\text{S})\text{NH}_2$, $(\text{CH}_2)_n\text{NH}_2$, $(\text{CH}_2)_n\text{N}(\text{Me})_2$, $(\text{CH}_2)_n\text{N}(\text{Et})_2$, $(\text{CH}_2)_n(\text{iPr})_2$, $\text{CH}(\text{CH}_3)\text{NH}_2$, $\text{C}(\text{CH}_3)_2\text{NH}_2$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{NH}_2$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{NHCH}_2\text{CH}_2\text{NH}_2$, $\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{NH}_2)_2$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{NH}_2)_2$, $\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{OH})_2$, $(\text{CH}_2)_n(\text{morpholin-4-yl})$, $(\text{CH}_2)_n(\text{piperidin-1-yl})$, $(\text{CH}_2)_n(4\text{-methypiperazin-1-yl})$, $\text{N}(\text{SO}_2\text{CF}_3)_2$, $(\text{CH}_2)_n\text{CHO}$, $(\text{CH}_2)_n\text{Si}(\text{Me})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Et})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{iPr})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})(\text{tBu})\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Me})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{Et})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{i-Pr})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})(\text{Ph})\text{Cl}$, $\text{P}(\text{Ph})_2$, $\text{P}(\text{o-tolyl})_2$,



wherein n is zero or an integer from 1 to 5 ;

Y is H, Cl, Br, F, OH, or OMe;

Z is NCO, CO₂Me, CO₂Et, CO₂(i-Pr), CO₂(n-Bu), CO₂(t-Bu), CN, CO₂H, COCl, CO₂CH(CF₃)₂, CO₂(pentafluorophenyl), CO₂(pentachlorophenyl), CO₂Ph, CO₂(N—succinimidyl), C(OMe)₃, C(OEt)₂, CON(OCH₃)CH₃, CHO, CH₂OH, or C(CH₃)₂OH; and

R⁴ is

